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SAPC-1336  
Copy 1 of 5.  
JUL 7 1955

MEMORANDUM FOR : Executive Officer - [REDACTED]  
SUBJECT : Results of Field Tests at R-W

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1. This will advise that in a telephone conversation with [REDACTED] I was advised that the field tests conducted for System 2 (Communication and Navigation) indicate that the HF concept of the navigation system is not valid. The phase stability observed on HF is insufficient for navigation purposes. It will therefore be necessary to resort to some alternate means. The contractor is proceeding without delay on development of a navigation system which will use frequencies in the 100 to 200 kilocycle range. Unfortunately, since LF can no longer be avoided, communications security problems which did not exist in the HF approach are now of considerable magnitude. Additionally, the matter of obtaining operating frequencies and anything which might resemble valid cover on LF are now very serious problems. All these matters will be thoroughly discussed by [REDACTED] and myself during our visit to the contractor on 14-15 July.

2. To compensate for the unhappy note of the foregoing, you are advised that the same field tests have demonstrated once again the complete reliability and inherent security of the HF pulse communication system. You may be again assured that the original concept of the communication system will materialize in about the same form originally predicted.

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[REDACTED]  
Office of Communications

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CLASS. CHANGED TO: TS S  
NEXT REVIEW DATE  
AUTH: HR 70-2  
DATE: 10/11/91 REVIEWER: 037169

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